

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-234030

(43)Date of publication of application : 02.09.1998

(51)Int.Cl. H04N 7/18

// A61B 5/00

(21)Application number : 09-052396 (71)Applicant : ANIMA DENSHI KK

(22)Date of filing : 19.02.1997 (72)Inventor : YAMAMOTO TAKAHIRO

(54) SUPERVISORY MONITOR SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide the supervisory monitor system for monitoring that picks up an image of supervised persons and monitors them through visual observation where privacy and human rights of the supervised persons are protected and they are supervised simply and surely.

SOLUTION: An analysis means 4 discriminates a state of a supervised person in terms of the hardware based on an original image picked up by an image pickup means and an image selection means 5 selects a time-varying image or a still image corresponding to the content to be displayed among the time- varying image or still image stored in an image storage means 6 and the selected image is displayed on a display means under the control of a display control means 7. Thus, the state of the supervised person only is surely displayed without displaying the face of the supervised person and a state of a circumstance where the supervised person is resident on the display means and sure and simple supervision is conducted while protecting the privacy and human rights of the supervised persons.

LEGAL STATUS [Date of request for examination]

- [Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

- [Date of final disposal for application]

[Patent number]

[Date of registration]

- [Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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CLAIMS

[Claim(s)]

[Claim 1] An image pick-up means to be arranged in a monitor-ed side, to picturize the monitor-ed concerned, and to output a original image, In the monitor monitor system with which it is arranged in a monitor side, and has a display means to display said Hara image, and a monitor supervises a monitor-ed based on the contents of a display of the display means concerned

An analysis means to analyze said subject-copy image and to judge a monitor's-ed condition, and an image recording means to store said monitor's-ed 1, two or more animations, or still picture corresponding to various conditions, An image selection means to choose 1, two or more animations, or the still picture stored in said image recording means corresponding to the contents judged with said analysis means, The monitor monitor system characterized by having a display-control means to perform control to which said selected animation or selected still picture is displayed on said display means.

[Claim 2] It is the monitor monitor system characterized by what said analysis means guesses a new monitor's-ed condition in said monitor monitor system according to claim 1 based on two or more decision concerned when two or

more monitors'-ed condition is judged, and is judged.

[Claim 3] The monitor monitor system characterized by displaying a monitor's-ed subject-copy image on said display means when the predetermined conditions from which said monitor's-ed consent was obtained, and which was defined beforehand are satisfied in said monitor monitor system according to claim 1 or 2.

[Claim 4] The monitor monitor system characterized by judging it as an abnormal condition and emitting an alarm in a monitor monitor system given in any [said claim 1 thru/or] of 3 they are when said analysis means cannot judge a monitor's-ed condition, or when an image selection means cannot choose 1, two or more animations, or the still picture stored in the image recording means.

[Claim 5] When said analysis means cannot judge a monitor's-ed condition in said monitor monitor system according to claim 1 or 2, Or when an image selection means cannot choose the animation or still picture stored in the image recording means Based on a monitor's-ed subject-copy image displayed on said display means the condition [the predetermined conditions from which a monitor's-ed consent was obtained, and which was defined beforehand being satisfied], a monitor side checks the condition by the side of a monitor-ed. Or the monitor monitor system characterized by for a monitor side checking a monitor's-ed condition with other means, and storing animation or still picture corresponding to a condition of the checked monitor-ed concerned in said image

recording means.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the monitor monitor system which can be supervised protecting especially a monitor's-ed privacy in the monitor monitor system which picturizes a monitor-ed and is supervised by viewing.

[0002]

[Description of the Prior Art] Conventionally, there were some which are shown in drawing 7 as this kind of a monitor monitor system. This drawing 7 shows the outline block block diagram of the conventional monitor monitor system. The surveillance camera 1 which the conventional monitor monitor system is arranged in the room 11 as for which the monitor 10-ed does the whereabouts in this drawing, picturizes the monitor 10-ed, and outputs image pick-up data, It is a configuration equipped with the transmission line 2 which transmits the image pick-up data outputted from this surveillance camera 1 to the monitor center 31,

and the monitor TV 3 which displays the image of the monitor's 10-ed subject-copy image based on the image pick-up data which are arranged in said monitor center 31 and transmitted through the transmission line 2.

[0003] In being the old man from whom this monitor 10-ed is set as the object of home care, the old (monitor 10-ed) condition in this old man's room 11 is picturized with a surveillance camera 1, and it transmits the image pick-up data obtained by this image pick-up to the monitor center 31 through a propagation circuit 2. The subject-copy image of the old man who is the monitor 10-ed is displayed on the monitor TV 3 arranged in the monitor center 31 based on this transmitted image pick-up data, and a monitor 30 can supervise this displayed subject-copy image by viewing.

[0004]

[Problem(s) to be Solved by the Invention] Since the conventional monitor monitor system was constituted as mentioned above, the monitor's 10-ed subject-copy image will be exposed to a monitor's 30 eyes, and it has the technical problem that the monitor's 10-ed privacy cannot be protected. In the case of the old man in whom the monitor 10-ed receives care especially, all of daily lives will be looked at by the monitor 30, and for the monitor's 10-ed old man, shame must be borne and it will be forced pain at the time of normally care is not needed. Moreover, it is not appropriate for feeling to be hurt, while a

monitor field is continuously monitored for a just visitor in the location which many and unspecified persons, such as a store, frequent and giving a feeling of oppression mentally, and to release his subject-copy image under malfeasance generally from the position of the human-rights protection also for an inaccurate visitor.

[0005] On the other hand, although performing processing which packs the subject-copy image displayed on a monitor TV 3 using the subject-copy image obtained by said conventional monitor monitor system for every number of predetermined pixels, and is made into the shape of a mosaic is also considered, when the image processing of the shape of such a mosaic is performed, even if it can make the part of a monitor's-ed face indistinct and can aim at protection of privacy, it has the technical problem that a monitor cannot be ensured. This invention was made in order to cancel said technical problem, and it aims at offer of the monitor monitor system which can perform a certain and simple monitor, protecting a monitor's-ed privacy and human rights.

[0006]

[Means for Solving the Problem] An image pick-up means for the monitor monitor system concerning this invention to be arranged in a monitor-ed side, to picturize the monitor-ed concerned, and to output a original image, In the monitor monitor system with which it is arranged in a monitor side, and has a

display means to display said Hara image, and a monitor supervises a monitor-ed based on the contents of a display of the display means concerned. An analysis means to analyze said subject-copy image and to judge a monitor's-ed condition, and an image recording means to store said monitor's-ed 1, two or more animations, or still picture corresponding to various conditions, It has an image selection means 5 to choose 1, two or more animations, or the still picture stored in said image recording means corresponding to the contents judged with said analysis means, and a display-control means to perform control to which said selected animation or selected ***** is displayed on said display means. Thus, in this invention, an analysis means judges a monitor's-ed condition for a monitor's-ed subject-copy image picturized with the image pick-up means. Among the animation stored in the image recording means, or a still picture, since an image selection means chooses the animation or still picture corresponding to said judged contents and he is trying for a display-control means to display this on a display means. A certain and simple monitor is performed only a monitor's-ed condition being displayed on **** and protecting a monitor's-ed privacy and human rights without displaying a monitor's-ed face, and the situation of a field that a monitor-ed exists on a display means.

[0007] Moreover, the monitor monitor system concerning this invention guesses and judges a new monitor's-ed condition based on two or more decision

concerned, when an analysis means judges two or more monitors'-ed condition if needed. Thus, in this invention, since an analysis means guesses and judges other conditions of a monitor-ed further based on two or more monitors'-ed judged condition, a monitor's-ed condition can be recognized and supervised in more certain and a detail.

[0008] Moreover, the monitor monitor system concerning this invention displays a monitor's-ed subject-copy image on said display means, when the predetermined conditions from which said monitor's-ed consent was obtained and which was defined beforehand are satisfied if needed. thus, exact and more precise [being able to see by the monitor side and protecting a monitor's-ed privacy and human rights, when there is comprehension whose subject-copy image of a monitor-ed is him, or only when just] in this invention, since he is trying to display a monitor's-ed subject-copy image on a display means only when the predetermined conditions defined beforehand are satisfied -- it can supervise.

[0009] Moreover, when an analysis means cannot judge a monitor's-ed condition if needed, or when an image selection means cannot choose 1, two or more animations, or the still picture stored in the image recording means, the monitor monitor system concerning this invention is judged to be an abnormal condition, and emits an alarm. Thus, in this invention, since he is trying to emit an alarm

when an analysis means is unanalyzable, or when selection of an animation and a still picture cannot do an image selection means, a monitor-ed is supervised more to ****.

[0010] Moreover, when, as for the monitor monitor system concerning this invention, an analysis means cannot judge a monitor's-ed condition if needed, Or when an image selection means cannot choose the animation or still picture stored in the image recording means Based on a monitor's-ed subject-copy image displayed on said display means the condition [the predetermined conditions from which a monitor's-ed consent was obtained, and which was defined beforehand being satisfied], a monitor side checks the condition by the side of a monitor-ed. Or a monitor side checks a monitor's-ed condition with other means, and animation or still picture corresponding to a condition of the checked monitor-ed concerned is stored in said image recording means. Thus, in this invention, when decision of a monitor's-ed condition etc. cannot be performed Since the condition of the monitor-ed when the ability not to perform this decision etc. is checked by other approaches and he is trying to store animation or still picture corresponding to a condition of this checked monitor-ed in an image recording means Whenever the condition that the condition of the monitor-ed who was not able to do decision etc. at the beginning can be lessened as a monitor is continued, and said decision etc. cannot do it occurs,

while being able to accumulate the animation or still picture corresponding to this, decision of the condition of the monitor-ed in consideration of the description for every specific monitor-ed is attained.

[0011]

[Embodiment of the Invention]

(1st operation gestalt of this invention) The monitor monitor system concerning the 1st operation gestalt of this invention is hereafter explained based on drawing 1. This drawing 1 shows the block block diagram of the monitor monitor system concerning this operation gestalt. The monitor monitor system applied to this operation gestalt in this drawing The surveillance camera 1 as an image pick-up means to be arranged in two or more monitors'-ed room 11, to picturize this monitor-ed, and to output a original video signal, The propagation circuit 2 which transmits a original video signal to before the monitor side transmission part 22 prepared in the monitor center 31 from the supervised side transmission part 21 prepared in said monitor's-ed room 11, An analysis means 4 to analyze the subject-copy picture signal transmitted through this propagation circuit 2, to judge a monitor's-ed condition, and to output analysis data, An image recording means 6 to store two or more animations or still pictures corresponding to this monitor's-ed various conditions, It is a configuration equipped with an image selection means 5 to choose 1, two or more animations, or the still picture stored

in said image recording means 6 corresponding to the analysis data judged with said analysis means 4, and a display-control means 7 to perform control to which this selected animation or selected still picture is displayed on a monitor TV 3.

[0012] Said analysis means 4, the image recording means 6, the image selection means 5, the display-control means 7, and a monitor TV 3 are the configurations that a monitor guesses a monitor's-ed condition visually with the animation or still picture which was prepared by each in the monitor center 31 and was displayed on the monitor TV 3. Said analysis means 4 is the configuration of extracting only a monitor-ed [mobile] image from the subject-copy picture signal transmitted as an object image, and analyzing and judging a monitor's-ed whereabouts location and condition from this object image. Said image recording means 6 is the configuration of creating the pattern of operation with which a monitor-ed is expected beforehand, such as "he walking", "it sitting on a floor", "it sitting on a chair", "it lying to the floor", "it sleeping on a bed", "things being cooked", and "going to a rest room", as an animation or a still picture, and storing the pattern data of this animation or a still picture.

[0013] Next, monitor actuation of the monitor monitor system concerning this operation gestalt based on said configuration is explained with reference to drawing 2 . This drawing 2 shows the operation flow chart of the monitor monitor

system concerning this operation gestalt. First, a surveillance camera 1 and the supervised side transmission part 21 are arranged in a monitor's-ed room 11, and the supervised [this] side transmission part 21 is connected to the monitor center 31 through the propagation circuit 2 which consists of transmission lines, such as a telephone. Said surveillance camera 1 picturizes the monitor-ed in the room 11, and generates a original video signal (step 1). This generated original video signal is transmitted to the monitor center 31 side through a propagation circuit 2 (step 2).

[0014] It is received by the monitor side transmission part 22, and the original video signal transmitted by said propagation circuit 2 is inputted into the analysis means 4, and based on the object image extracted from the original video signal as a monitor's-ed image, this analysis means 4 analyzes a monitor's-ed whereabouts location and condition, and is judged (step 3). The analysis of this analysis means 4 compares each data of the object image which stored respectively in the field memory (illustration is omitted) the subject-copy picture signal transmitted to sequential, and was respectively stored in this field memory, and extracts only a monitor's-ed image detected as a mobile as an object image. it matches with the behavior pattern of the monitor-ed by whom the analysis means 4 was set up beforehand from the data of this extracted object image, a monitor's-ed whereabouts location and condition are judged, and analysis data

are outputted -- things -- **

[0015] The analysis data outputted from said analysis means 4 are inputted into the image selection means 5, and the pattern data corresponding to analysis data are chosen from the patterns of the animation stored in the image recording means 6, or a still picture, and this image selection means 5 reads the pattern data of this selected animation or a still picture from the image recording means 6, and outputs them (step 4). Based on the pattern data of this read animation or a still picture, the image recording means 6 indicates by the output at a monitor TV 3 (step 5).

[0016] A monitor checks the pattern data of a still picture by viewing, and the animation or still picture displayed on this monitor TV 3 can guess a monitor's-ed whereabouts location and condition. That is, without displaying a monitor's-ed image directly on a monitor TV 3, among the animation created beforehand or a still picture, since he is trying to display the animation or still picture corresponding to a monitor's-ed whereabouts location and condition on a monitor TV 3, sufficient monitor organization can be taken, protecting a monitor's-ed privacy. Without a monitor looking at a domestic life directly, in the case of the old man in whom especially a monitor-ed receives home care, the condition of an old man required for care can be checked visually, and home care can be performed safely and certainly to it.

[0017] (2nd operation gestalt of this invention) Drawing 3 shows the block diagram of the monitor system concerning this operation gestalt. The monitor system applied to this operation gestalt in this drawing Said drawing 1 is equipped with a surveillance camera 1, a propagation circuit 2, the analysis means 4, the image selection means 5, the image recording means 6, the display selection means 7, and a monitor TV 3 in common like the operation gestalt of a publication. An alarm means 8 to output an alarm signal based on the analysis result of said analysis means 4 in addition to this configuration, It is a configuration equipped with a conditional-judgment means 9 to judge whether the check conditions defined beforehand are satisfied when this alarm signal is outputted, and the telephones 201 and 202 which perform the check by the telephone contact to the monitor-ed who is one of the check conditions of this conditional-judgment means 9.

[0018] Said alarm means 8 is a configuration which judges it as an abnormal condition and emits the alarm of an alarm, when the analysis means 4 cannot specify a monitor's-ed condition, or when the image selection means 5 cannot choose ***** among two or more animations stored in the image recording means 6, or a still picture. Said condition judging means 9 is the case where an alarm signal is generated from the alarm means 8, and is a configuration which outputs a subject-copy status signal to the display-control means 7 a condition

[the enabling signal with which it permits that display a monitor's-ed image on a television monitor 3 directly based on a original video signal among monitors-ed by communication of telephones 201 and 202, and a monitor checks being inputted].

[0019] Next, actuation of the monitor monitor system concerning this operation gestalt based on said configuration is explained based on drawing 4 . This drawing 4 shows the operation flow chart of the monitor monitor system concerning this operation gestalt. First, it picturizes with a surveillance camera 1 like said 1st operation gestalt (step 10), this picturized subject-copy picture signal is transmitted to the monitor center 31 (step 11), and this transmitted subject-copy picture signal is further analyzed with the analysis means 4 (in drawing 1 (step 12), it is equivalent to step 1 thru/or 3). Said analysis means 4 outputs analysis data to the image selection means 5, when it judges whether a monitor's-ed condition has been specified in this analysis (step 13) and it is judged that a monitor's-ed condition has been specified in this decision.

[0020] Said image selection means 5 chooses and reads the pattern data corresponding to the analysis data outputted from said analysis means 4 out of the pattern data of the animation stored in the image recording means 6, or a still picture (step 14). This image selection means 5 outputs this read pattern data to the display-control means 7, when it judges whether pattern data were read

proper at step 14 (step 15) and it is judged that pattern data were read at this step 15 (step 16).

[0021] This display-control means 7 indicates the pattern of the animation corresponding to a monitor's-ed whereabouts location and condition, or a still picture by the output at a monitor TV 3 based on the pattern data outputted from said image selection means 5 (step 17).

[0022] When it is judged that a monitor's-ed condition cannot be specified in said step 13, an analysis impossible means signal is outputted to the display-control means 7 and the alarm means 8. Moreover, when it is judged that the image selection means 5 is not read from the image recording means 6 proper in pattern data in said step 15, a read-out impossible signal is respectively outputted to the display-control means 7 and the alarm means 8. This alarm means 8 will output an alarm signal to the condition judging means 9, if an analysis impossible signal and a read-out impossible signal are inputted respectively (step 18).

[0023] The condition judging means 9 into which said alarm signal was inputted judges whether the conditions set up beforehand were satisfied (step 19), and when conditions are satisfied, it outputs a display enabling signal to the display-control means 7. This display-control means 7 will indicate a monitor's-ed whereabouts location and condition by the direct output at a

monitor TV 3 based on the original video signal transmitted through a propagation circuit 2, if a display enabling signal is inputted (step 20).

[0024] Thus, it is the case where the analysis means 4 is not able to analyze a monitor's-ed whereabouts location and condition. When the image selection means 5 was able to choose and is not able to read from the pattern data of the animation beforehand stored in the image recording means 6, or a still picture A monitor can check a monitor's-ed image displayed on the monitor TV 3 by viewing in the monitor center 31, and a more certain and highly precise monitor can be performed, protecting a monitor's-ed privacy. When it is the old man in whom a monitor-ed receives home care especially, the safety to the catastrophic failure of home care service can be raised, and the safety on a still more unjust invader's etc. defense can also be maintained.

(3rd operation gestalt of this invention)

[0025] Drawing 5 shows the block block diagram of the monitor center in the monitor monitor system concerning this operation gestalt. The monitor monitor system applied to this operation gestalt in this drawing equips the room 11 of a supervised side with the telephone 202 of the side supervised [a surveillance camera 1, supervised side transmission part 21,202a, and] like an operation gestalt given in said drawing 3 , and differs in the configuration of the monitor center 31 which supervises this room 11. This monitor center 31 equips said

drawing 3 with a monitor TV 3, the analysis means 4, the image selection means 5, the image recording means 6, the display-control means 7, the alarm means 8, and the condition judging means 9 in common like the operation gestalt of a publication, and, in addition to this configuration, generates new pattern data. It is a configuration equipped with the pattern data generation means 91 and an input means 92 to input the various commands for generating this pattern data.

[0026] Next, actuation of the monitor monitor system concerning this operation gestalt based on said configuration is explained based on drawing 6 . some monitor monitor systems which this drawing 6 requires for this operation gestalt -- an operation flow chart is shown.

[0027] First, if actuation of step 1 thru/or step 21 is performed like the operation gestalt of a publication and a monitor's-ed image is displayed on said drawing 3 and drawing 4 by the monitor TV 3 based on a original video signal in said step 20, a monitor will judge a monitor's-ed condition for this displayed image by connivance (step 201). In this step 201, by telephone 201 and 202, a monitor can check a monitor's-ed condition further by the dialogue with a monitor-ed, and can also judge.

[0028] The animation and still picture corresponding to a monitor's-ed condition judged at this step 201 are inputted from the input means 92 (step 202). This input means 92 inputs the graphic data of the corresponding animation and still

picture which consisted of a keyboard, a mouse, an image scanner, etc., plotted the animation and the still picture by actuation of a keyboard, a mouse, etc., and inputted, or was beforehand created from the image scanner.

[0029] Moreover, the alarm signal outputted to said step 201 from an alarm means at step 18 as shift grinding ***** is outputted also to the pattern data generation means 91 with the condition judging means 9. Moreover, the pattern data generation means 91 into which the alarm signal was inputted matches respectively a monitor's-ed condition judged at said step 201 the condition [the display enabling signal from the condition judging means 9 being inputted in said step 19] with the graphic data of the animation and still picture into which it was inputted at step 202, and creates pattern data (step 203).

[0030] This created pattern data is outputted to the image recording means 6 from the pattern data generation means 91, and is stored in this image recording means 6 (step 204). Thus, whenever the condition that decision etc. is impossible during a monitor occurs, as long as the pattern data of the animation and still picture which analyzes, and distinguishes and corresponds this can be stored and a monitor posture is continued, the analysis / distinction capacity is raised, and a more certain and exact monitor can be performed. In consideration of the description for every specific monitor-ed, a monitor's-ed condition can be judged from the ability of the pattern data used as decision conditions (criteria) to

be especially created and stored according to an individual to two or more monitors-ed.

[0031] In addition, in the monitor monitor system concerning said each operation gestalt, although the analysis means 4 considered as the configuration which judges the condition in single actuation of a monitor-ed, it can also consider as the configuration which judges each condition about each of two or more actuation of a monitor-ed, and guesses and judges a new monitor's-ed condition based on these decision of two or more. For example, when [which a monitor-ed is walking] "He walks" is judged and "It lies to the floor" is suddenly judged during this walk, this thing two decision "it lies to the floor" to the monitor-ed "reversed [saying "he walks"]" is guessed. Moreover, when a monitor-ed is judged to be ""the inside of bathing or a stool"" and is judged "To lie to the floor" ""in this bathing or a stool"", it is guessed to a monitor-ed that it is a certain the "occurrence of accident." Furthermore, when [by which a monitor-ed is going to bed] "It sleeps on a bed" is judged and "It sleeps on a bed" is again judged after progress beyond the predetermined time of this decision, based on these decision of two or more, it guesses "It is an abnormal occurrence on a bed."

[0032]

[Effect of the Invention] In this invention, an analysis means makes a hard judgment of a monitor's-ed condition for a monitor's-ed subject-copy image

picturized with the image pick-up means. Among the animation stored in the image recording means, or a still picture, since an image selection means chooses the animation or still picture corresponding to said judged contents and he is trying for a display-control means to display this on a display means The effectiveness of performing a certain and simple monitor is done so, only a monitor's-ed condition being displayed on **** and protecting a monitor's-ed privacy and human rights without displaying a monitor's-ed face, and the situation of a field that a monitor-ed exists on a display means. moreover, this invention -- if it is, since an analysis means guesses and judges other conditions of a monitor-ed further based on two or more monitors'-ed judged condition, it has more certain and the effectiveness that it can recognize and supervise in a detail for a monitor's-ed condition. moreover, this invention -- since he is trying to display a monitor's-ed subject-copy image on a display means if it is only when the predetermined conditions defined beforehand are satisfied, it has the more exact and precise effectiveness that it can supervise, being able to see by the monitor side and protecting a monitor's-ed privacy and human rights, when there is comprehension whose subject-copy image of a monitor-ed is him, or only when just. Moreover, in this invention, since he is trying to emit an alarm when an analysis means is unanalyzable, or when selection of an animation and a still picture cannot do an image selection means, it has the effectiveness of

supervising a monitor-ed to **** more. Furthermore, in this invention, when decision of a monitor's-ed condition etc. cannot be performed Since the condition of the monitor-ed when the ability not to perform this decision etc. is checked by other approaches and he is trying to store animation or still picture corresponding to a condition of this checked monitor-ed in an image recording means Whenever the condition that the condition of the monitor-ed who was not able to do decision etc. at the beginning can be lessened as a monitor is continued, and said decision etc. cannot do it occurs, while being able to accumulate the animation or still picture corresponding to this It has the effectiveness that decision of the condition of the monitor-ed in consideration of the description for every specific monitor-ed is attained.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the block block diagram of the monitor monitor system concerning the 1st applied configuration of this invention.

[Drawing 2] It is the operation flow chart of the monitor monitor system concerning the 1st operation gestalt of this invention.

[Drawing 3] It is the block block diagram of the monitor monitor system concerning the 2nd operation gestalt of this invention.

[Drawing 4] It is the operation flow chart of the monitor monitor system concerning the 2nd operation gestalt of this invention.

[Drawing 5] It is the block block diagram of the monitor monitor system concerning the 3rd operation gestalt of this invention.

[Drawing 6] It is the operation flow chart of the monitor monitor system concerning the 3rd operation gestalt of this invention.

[Drawing 7] It is the outline block block diagram of the conventional monitor monitor system.

[Description of Notations]

1 Surveillance Camera

2 Transmission Line

3 Monitor TV

4 Analysis Means

5 Image Selection Means

6 Image Recording Means

7 Display-Control Means

8 Alarm Means

9 Conditional-Judgment Means

10 Monitor-ed

11 Room

21,201a, 202a Supervised side transmission part

22 Monitor Side Transmission Part

30 Monitor

31 Monitor Center

91 Pattern Data Generation Means

92 Input Means

201 202 Telephone